

# Mathematical Methods in Reliability Joint Research Group

Friday 2<sup>nd</sup> March 2012, University of Salford

## Repairable Systems

### PROGRAMME

**1030-1100 Refreshments**

**1100-1230 Talks and Discussion**

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| 1100-1115 | Use of System Dynamics in Maintenance Modelling<br><i>Prof. Khairy Kobbacy (Salford)</i> |
| 1115-1145 | Robust Design<br><i>Prof. Michael Beer (Liverpool)</i>                                   |
| 1145-1200 | Some New Survival Distributions<br><i>Prof. Rose Baker (Salford)</i>                     |
| 1200-1230 | Asset Management for Electricity Networks<br><i>Dr Andrew Brint (Sheffield)</i>          |

**1230-1300 Buffet Lunch**

**1300-1500 Talks and Discussion**

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| 1300-1315 | Maintenance Policies for Systems that Feature Bivariate Failure Processes<br><i>Prof. Phil Scarf (Salford)</i>  |
| 1315-1345 | Marine and Offshore Safety Analysis<br><i>Prof. Jin Wang (Liverpool John Moores)</i>  |
| 1345-1415 | Structural Health Monitoring for Aerospace Systems and Structures<br><i>Prof. Keith Worden (Sheffield)</i>  |
| 1415-1425 | Reliability Models for Parallel-Series Systems<br><i>Mr Safar Al-Ghamdi (Salford)</i>   |
| 1425-1435 | Degradation Modelling and Residual Life Estimation<br><i>Ms Wenjia Xu (Salford)</i>   |
| 1435-1445 | Minimal Repair in Two Dimensions<br><i>Mr Stuart Bell (Salford)</i>   |
| 1445-1500 | Review and Future Plans<br><i>Prof. Frank Coolen (Durham)</i><br><i>Prof. John Quigley (Strathclyde)</i><br><i>Dr Keming Yu (Brunel)</i><br><i>Prof. Dave Percy (Salford)</i> |

**Location:** Maxwell Building THINKlab, free admission

**Cars:** £5 for 6 hours pay and display in front of Salford Museum and Art Gallery  
Eastbound access from A6 (The Crescent) by the Maxwell Building

**Trains:** 15-minute stroll from Salford Crescent Railway Station